

CLAIMS

1-34. (Cancelled)

35. (New) A mirror which comprises:

a glass substrate;

a silver coating layer on a surface of the glass substrate; and

an exposed paint layer overlaying the silver coating layer, this paint layer being an epoxy paint layer;

the mirror having all of the following properties:

(a) a scratch resistance determined by the Clemen test showing scratches of less than 10 μm when applying a weight of 1500 g;

(b) a hardness determined by the Persoz pendulum of at least 250 s;

(c) a commercially acceptable resistance to at least three glues selected from the group consisting of an oxime, an alcoxy, a MS polymer and a rubber glue.

36. (New) The mirror according to claim 35, in which at least one material selected from the group consisting of bismuth, chromium, gold, indium, nickel, palladium, platinum, rhodium, ruthenium, titanium, vanadium and zinc is provided at the surface of the glass substrate which is coated with the silver coating layer.

37. (New) The mirror according to Claim 35, in which the exposed epoxy paint layer is the only layer of paint of the mirror.

38. (New) The mirror according to Claim 35, wherein the mirror has commercially acceptable resistance to all the glues selected from the group consisting of an oxime, an alcoxy, a MS polymer and a rubber glue.

39. (New) The mirror according to Claim 35, wherein tin is present at the surface of the glass substrate adjacent to the silver layer.

40. (New) The mirror according to Claim 35, wherein the epoxy paint layer has a thickness in the range 25-55 μm .
41. (New) The mirror according to claim 40, wherein the epoxy paint layer has a thickness in the range 35-40 μm .
42. (New) The mirror according to Claim 35, wherein at least one material selected from the group consisting of tin, chromium, vanadium, titanium, iron, indium, copper and aluminum is present at the surface of the silver coating layer which is adjacent to the paint layer overlaying the silver coating layer.
43. (New) The mirror according to Claim 35, wherein the silver coating layer has a thickness of 60 to 110 nm.
44. (New) The mirror according to Claim 35, wherein the epoxy paint layer is substantially lead-free.
45. (New) The mirror according to Claim 35, wherein traces of silane are present at the surface of the silver coating layer adjacent to the paint layer.
46. (New) The mirror according to Claim 35, wherein the mirror has an average edge corrosion of less than 200 μm when subjected to a 120 hour CASS test.
47. (New) The mirror according to Claim 35, wherein the mirror has an average edge corrosion of less than 50 μm when subjected to a 480 hour salt fog test.
48. (New) A mirror with no copper layer which consists essentially of, in the order recited:
a substrate in the form of a flat, soda lime glass sheet having a surface,
palladium and tin provided at said surface of the glass sheet,
a silver coating layer on said surface of the glass sheet,
tin present at the surface of the silver coating layer,

a single, exposed paint layer covering the silver coating layer, this paint layer being an epoxy paint layer;

the mirror having all of the following properties:

- (a) a scratch resistance determined by the Clemen test showing scratches of less than 10 μm when applying a weight of 1500 g;
- (b) a hardness determined by the Persoz pendulum of at least 250 s;
- (c) a commercially acceptable resistance to at least three glues selected from the group consisting of an oxime, an alcoxy, a MS polymer and a rubber glue;
- (d) an average edge corrosion of less than 200 μm when subjected to a 120 hour CASS test.

49. (New) A mirror with no copper layer which comprises:

a glass substrate;

at least one of

- (i) palladium provided at a surface of the glass substrate;
- (ii) at least one material selected from the group consisting of bismuth, chromium, gold, indium, nickel, platinum, rhodium, ruthenium, titanium, vanadium and zinc provided at a surface of the glass substrate;

a silver coating layer on said surface of the glass substrate; and

an exposed paint layer overlaying the silver coating layer, this paint layer being an epoxy paint layer;

the mirror having all of the following properties:

- (a) a scratch resistance determined by the Clemen test showing scratches of less than 10 μm when applying a weight of 1500 g;
- (b) a hardness determined by the Persoz pendulum of at least 250 s;
- (c) a commercially acceptable resistance to at least three glues selected from the group consisting of an oxime, an alcoxy, a MS polymer and a rubber glue.

50. (New) A mirror according to Claim 49 in which the exposed epoxy paint layer is the only paint layer of the mirror.

51. (New) A mirror according to Claim 49 in which the mirror has commercially acceptable resistance to all the glues selected from the group consisting of an oxime, an alcoxy, a MS polymer and a rubber glue.
52. (New) The mirror according to Claim 49 wherein tin is present at the surface of the glass substrate adjacent to the silver layer.
53. (New) The mirror according to Claim 49 wherein the epoxy paint layer has a thickness in the range 25-55 μm .
54. (New) The mirror according to Claim 53 wherein the epoxy paint layer has a thickness in the range 35-40 μm .
55. (New) The mirror according to Claim 49 wherein at least one material selected from the group consisting of tin, chromium, vanadium, titanium, iron, indium, copper and aluminum is present at the surface of the silver coating layer which is adjacent to the paint layer overlaying the silver coating layer.
56. (New) The mirror according to Claim 49 wherein the silver coating layer has a thickness of 60 to 110 nm.
57. (New) The mirror according to Claim 49 wherein the epoxy paint layer is substantially lead-free.
58. (New) The mirror according to Claim 49 wherein traces of silane are present at the surface of the silver coating layer adjacent to the paint layer.
59. (New) The mirror according to Claim 49 wherein the mirror has an average edge corrosion of less than 200 μm when subjected to a 120 hour CASS test.

60. (New) The mirror according to Claim 49 wherein the mirror has an average edge corrosion of less than 50 μm when subjected to a 480 hour salt fog test.